

# Control of Stimulated Photon-Echo Response Time in a Three-Level System by Changing the Relative Orientation of the External Electric-Field Gradients

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## Abstract

We investigate the formation of stimulated photon echo in a three-level system in the presence of spatially inhomogeneous external electric fields. We show the possibility of controlling stimulated photon-echo response time in the nano-temporal range. © 2014 Springer Science+Business Media New York.

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## Keywords

photon-echo locking effect, spatially inhomogeneous external electric fields, stimulated photon echo, three-level system